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18. 5,247,166, Sep. 21, 1993, Form reader with linear CCD scanner and drum feed; Thomas Cannon, et al., 250/208.1; 235/462; 250/569 [IMAGE AVAILABLE]
19. 5,233,331, Aug. 3, 1993, Inking buffer for flat-panel display controllers; Liam D. Comerford, et al., 345/3; 178/18; 345/119, 200 [IMAGE AVAILABLE]
20. 5,226,091, Jul. 6, 1993, Method and apparatus for capturing information in drawing or writing; David N. L. Howell, et al., 382/3, 13, 56 [IMAGE AVAILABLE]
21. 5,223,677, Jun. 29, 1993, **Handwriting** capture device with insertable form interface; Michael A. Kapp, et al., 178/18; 345/196 [IMAGE AVAILABLE]
22. 5,222,188, Jun. 22, 1993, Method and apparatus for speech recognition based on subsyllable spellings; Sandra E. Hutchins, 395/2 [IMAGE AVAILABLE]
23. 5,208,897, May 4, 1993, Method and apparatus for speech recognition based on subsyllable spellings; Sandra E. Hutchins, 395/2 [IMAGE AVAILABLE]
24. 5,208,869, May 4, 1993, Character and pattern recognition machine and method; Arthur W. Holt, 382/7, 2, 9 [IMAGE AVAILABLE]
25. 5,202,930, Apr. 13, 1993, High precision on-line signature dynamic verification system; Alexander Livshitz, et al., 382/3, 13, 18, 41 [IMAGE AVAILABLE]
- 22 JUL 94 16:35:17 U.S. Patent & Trademark Office P0020
26. 5,199,068, Mar. 30, 1993, Computer-based training system with student verification; Robert R. Cox, 380/23; 340/825.34; 382/3, 13 [IMAGE AVAILABLE]
27. 5,195,133, Mar. 16, 1993, Apparatus and method for producing a **digitized** transaction record including an encrypted signature; Michael A. Kapp, et al., 380/9; 235/379, 380; 380/22, 23, 43, 49, 55; 382/3 [IMAGE AVAILABLE]
28. 5,181,255, Jan. 19, 1993, Segmentation of **handwriting** and machine printed text; Dan S. Bloomberg, 382/9, 48, 55 [IMAGE AVAILABLE]
29. 5,164,542, Nov. 17, 1992, Composite housing for a computer system; William Hart, 174/35MS; 29/592.1; 174/35R; 361/683, 724; 425/542, 543; 427/300; 428/622, 623, 624 [IMAGE AVAILABLE]
30. 5,157,737, Oct. 20, 1992, **Handwritten** keyboardless entry computer system; Ralph Sklarew, 382/13; 178/18; 382/59 [IMAGE AVAILABLE]
31. 5,157,384, Oct. 20, 1992, Advanced user interface; Evon C. Greanias, et al., 345/156, 157 [IMAGE AVAILABLE]
32. RE 34,095, Oct. 13, 1992, **Digitizer stylus** with pressure transducer; Michael J. Padula, et al., 178/18, 19; 338/2 [IMAGE AVAILABLE]
33. 5,151,950, Sep. 29, 1992, Method for recognizing **handwritten** characters using shape and context analysis; Gregory N. Hullender, 382/13, 15, 25, 37, 39, 40 [IMAGE AVAILABLE]
34. 5,148,155, Sep. 15, 1992, Computer with tablet input to standard programs; Patricia A. Martin, et al., 345/173; 178/18; 345/179 [IMAGE AVAILABLE]
35. 5,113,041, May 12, 1992, Information processing; Greg E. Blonder, et al., 178/18, 19 [IMAGE AVAILABLE]

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al., 348/15; 341/1; 379/93 [IMAGE AVAILABLE]

62. 4,646,355, Feb. 24, 1987, Method and apparatus for input picture enhancement by removal of undersired dots and voids; Bruce E. Petrick, et al., 382/54; 358/447, 456; 382/49 [IMAGE AVAILABLE]

63. 4,639,879, Jan. 27, 1987, Method and device for light emitting intensity control in a graphic display device; Hiromi Chaya, 345/20, 147, 200 [IMAGE AVAILABLE]

64. 4,621,334, Nov. 4, 1986, Personal identification apparatus; John D. Garcia, 364/550; 340/543, 825.3, 825.31; 379/95; 382/2; 902/3 [IMAGE AVAILABLE]

65. 4,578,811, Mar. 25, 1986, Key-in device; Naoki Inagaki, 382/11, 13, 24 [IMAGE AVAILABLE]

66. 4,577,058, Mar. 18, 1986, Current-ratio digitizers; Robert J. Collins, 178/18 [IMAGE AVAILABLE]

67. 4,561,017, Dec. 24, 1985, Graphic input apparatus; Richard Greene, 348/707, 552 [IMAGE AVAILABLE]

68. 4,554,635, Nov. 19, 1985, Method and apparatus for marking or cutting laminar patterns or forms; Richard W. Levine, 364/474.25; 83/32, 75.5; 364/148, 191, 474.05, 474.09, 474.13, 512 [IMAGE AVAILABLE]

69. 4,553,261, Nov. 12, 1985, Document and data handling and retrieval system; Horst Froessl, 382/57; 364/188; 382/61 [IMAGE AVAILABLE]

70. 4,553,206, Nov. 12, 1985, Image storage and retrieval; John M. Smutek, et al., 395/275; 364/253, 715.02, DIG.1 [IMAGE AVAILABLE]

71. 4,551,810, Nov. 5, 1985, Method and apparatus for designing duct work and for producing patterns for conduit sections in the designed duct work; Richard W. Levine, 364/474.24, 191, 474.05, 474.09, 474.13, 474.25, 512 [IMAGE AVAILABLE]

72. 4,495,646, Jan. 22, 1985, On-line character recognition using closed-loop detector; Nader Gharachorloo, 382/13, 59 [IMAGE AVAILABLE]

73. 4,308,522, Dec. 29, 1981, Identity verification apparatus and method; Bruno J. Paganini, et al., 382/3, 30, 41 [IMAGE AVAILABLE]

22 JUL 94 16:37:05 U.S. Patent & Trademark Office P0023
 74. 4,305,131, Dec. 8, 1981, Dialog between TV movies and human viewers; Robert M. Best, 395/152; 273/434, 460, DIG.28; 345/122; 348/96; 352/5; 358/311, 342; 360/14.1; 364/410; 367/198; 381/43; 395/2; 434/323 [IMAGE AVAILABLE]

75. 4,024,500, May 17, 1977, Segmentation mechanism for cursive script character recognition systems; Noel Martin Herbst, et al., 382/9, 13 [IMAGE AVAILABLE]

76. 3,859,515, Jan. 7, 1975, METHOD AND APPARATUS FOR SIGNAL SPECTRUM ANALYSIS BY HADAMARD TRANSFORM; Arthur J. Radcliffe, Jr., 364/727; 324/76.12, 76.21; 340/825.34; 382/3, 43 [IMAGE AVAILABLE]

77. 3,766,520, Oct. 16, 1973, CHARACTER READER WITH HANDPRINT CAPABILITY; Joseph V. Patterson, 382/21, 25, 35 [IMAGE AVAILABLE]

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1. 5,329,427, Jul. 12, 1994, Modular computer system having an improved docking assembly; Per Hogdahl, 361/730, 728, 752, 785; 364/708.1; 439/136, 165 [IMAGE AVAILABLE]
2. 5,319,548, Jun. 7, 1994, Interactive golf game information system; Craig D. Germain, 364/410; 273/32R, DIG.26; 364/411 [IMAGE AVAILABLE]
3. 5,313,528, May 17, 1994, Method for extracting features from on-line **handwritten** characters; Hirobumi Nishida, 382/23, 16, 24 [IMAGE AVAILABLE]
4. 5,307,423, Apr. 26, 1994, Machine recognition of **handwritten** character strings such as postal zip codes or dollar amount on bank checks; Om P. Gupta, et al., 382/11; 235/379, 462; 382/7 [IMAGE AVAILABLE]
5. 5,303,312, Apr. 12, 1994, **Handwriting** recognition by character template; Liam D. Comerford, et al., 382/13, 11, 30 [IMAGE AVAILABLE]
6. 5,302,132, Apr. 12, 1994, Instructional system and method for improving communication skills; Paul R. Corder, 434/156; 345/173, 180; 364/419.03; 381/51; 395/160, 927; 434/169, 307, 323, 362 [IMAGE AVAILABLE]
7. 5,297,216, Mar. 22, 1994, **Handwritten** keyboardless entry computer system; Ralph Sklarew, 382/13, 59 [IMAGE AVAILABLE]
8. 5,295,238, Mar. 15, 1994, System, method, and font for printing cursive character strings; Nathan A. Dickson, 395/150, 145 [IMAGE AVAILABLE]
 22 JUL 94 16:35:10 U.S. Patent & Trademark Office P0019
9. 5,294,792, Mar. 15, 1994, Writing tip position sensing and processing apparatus; Russell F. Lewis, et al., 250/221, 226; 345/163, 180; 382/13 [IMAGE AVAILABLE]
10. 5,278,943, Jan. 11, 1994, Speech animation and inflection system; Elon Gasper, et al., 395/2 [IMAGE AVAILABLE]
11. RE 34,476, Dec. 14, 1993, Hybrid information management system for **handwriting** and text; Donald D. Norwood, 382/13; 345/119, 173; 364/705.03, 705.06 [IMAGE AVAILABLE]
12. 5,267,332, Nov. 30, 1993, Image recognition system; Mark A. Walch, et al., 382/55, 13, 21, 24, 26 [IMAGE AVAILABLE]
13. 5,264,992, Nov. 23, 1993, Modular computer system having self contained workslate unit detachably coupled to base unit including keyboard; Per Hogdahl, et al., 361/681; 16/334; 361/686, 818; 364/708.1; 403/93, 96; 428/317.1, 318.4, 319.1, 902, 922 [IMAGE AVAILABLE]
14. 5,260,697, Nov. 9, 1993, Computer with separate display plane and user interface processor; David M. Barrett, et al., 345/173, 179 [IMAGE AVAILABLE]
15. RE 34,429, Nov. 2, 1993, Interactive facsimile system and method of information retrieval; Paul Baran, et al., 379/100; 358/468 [IMAGE AVAILABLE]
16. 5,257,074, Oct. 26, 1993, Image forming apparatus; Masafumi Kamei, 355/244, 202; 382/13; 395/110 [IMAGE AVAILABLE]
17. 5,252,951, Oct. 12, 1993, Graphical user interface with gesture recognition in a multiapplication environment; Alan R. Tannenbaum, et al., 345/156, 173 [IMAGE AVAILABLE]

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52. 4,885,694, Dec. 5, 1989, Automated building control design system; Robert H. Pray, et al., 364/464.01, 188, 512; 395/155, 156 [IMAGE AVAILABLE]
53. 4,884,972, Dec. 5, 1989, Speech synchronized animation; Elon Gasper, 434/185; 395/152, 154; 434/167, 169, 307 [IMAGE AVAILABLE]
54. 4,882,475, Nov. 21, 1989, Synthesized speech-facilitated product preparation and/or delivery system and method; Phillip Miller, et al., 235/383, 380, 384; 364/401 [IMAGE AVAILABLE]
55. 4,843,377, Jun. 27, 1989, Remote confinement system; Kip L. Fuller, et al., 340/573; 128/719; 348/143; 379/38, 40, 49; 381/42; 382/4; 395/2 [IMAGE AVAILABLE]
56. 4,829,583, May 9, 1989, Method and apparatus for processing ideographic characters; James C. Monroe, et al., 382/13, 11, 56; 400/110 [IMAGE AVAILABLE]
57. 4,825,017, Apr. 25, 1989, Coordinates input device; Hidetoshi Hobara, 22 JUL 94 16:36:35 U.S. Patent & Trademark Office P0022 178/18, 20 [IMAGE AVAILABLE]
58. 4,821,336, Apr. 11, 1989, Method and apparatus for simplifying runlength data from scanning of images; John M. Roye, 382/56; 358/261.1; 382/26, 54 [IMAGE AVAILABLE]
59. 4,817,034, Mar. 28, 1989, Computerized **handwriting** duplication system; William F. Hardin, Sr., et al., 380/2; 178/18; 345/173; 364/918.7, 919, 919.1, 920.7, 927.1, 927.2, 927.6, 927.61, 929.3, 940.81, 943, 943.5, 951.1, 951.3, 974, DIG.2; 380/13; 382/2, 13 [IMAGE AVAILABLE]
60. 4,786,764, Nov. 22, 1988, **Digitizer stylus** with pressure transducer; Michael J. Padula, et al., 178/18, 19; 338/2 [IMAGE AVAILABLE]
61. 4,654,483, Mar. 31, 1987, Electronic conference system; Ryusaku Imai, et al., 348/15; 341/1; 379/93 [IMAGE AVAILABLE]
62. 4,646,355, Feb. 24, 1987, Method and apparatus for input picture enhancement by removal of undersired dots and voids; Bruce E. Petrick, et al., 382/54; 358/447, 456; 382/49 [IMAGE AVAILABLE]
63. 4,639,879, Jan. 27, 1987, Method and device for light emitting intensity control in a graphic display device; Hiromi Chaya, 345/20, 147, 200 [IMAGE AVAILABLE]
64. 4,621,334, Nov. 4, 1986, Personal identification apparatus; John D. Garcia, 364/550; 340/543, 825.3, 825.31; 379/95; 382/2; 902/3 [IMAGE AVAILABLE]
65. 4,578,811, Mar. 25, 1986, Key-in device; Naoki Inagaki, 382/11, 13, 24 [IMAGE AVAILABLE]
66. 4,577,058, Mar. 18, 1986, Current-ratio **digitizers**; Robert J. Collins, 178/18 [IMAGE AVAILABLE]
67. 4,561,017, Dec. 24, 1985, Graphic input apparatus; Richard Greene, 348/707, 552 [IMAGE AVAILABLE]
68. 4,554,635, Nov. 19, 1985, Method and apparatus for marking or cutting laminar patterns or forms; Richard W. Levine, 364/474.25; 83/32, 75.5; 364/148, 191, 474.05, 474.09, 474.13, 512 [IMAGE AVAILABLE]

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36. 5,107,541, Apr. 21, 1992, Method and apparatus for capturing information in drawing or writing; Colin S. Hilton, 382/3; 178/18; 382/13, 59, 65 [IMAGE AVAILABLE]
37. 5,097,517, Mar. 17, 1992, Method and apparatus for processing bank checks, drafts and like financial documents; Arthur W. Holt, 382/7, 2, 9 [IMAGE AVAILABLE]
38. 5,063,600, Nov. 5, 1991, Hybrid information management system for handwriting and text; Donald D. Norwood, 382/13; 345/145, 173; 364/705.03, 705.06; 382/59 [IMAGE AVAILABLE]
39. 5,052,043, Sep. 24, 1991, Neural network with back propagation controlled through an output confidence measure; Roger S. Gaborski, 382/14; 364/274.9; 382/27; 395/22, 23 [IMAGE AVAILABLE]
40. 5,051,736, Sep. 24, 1991, Optical stylus and passive digitizing tablet data input system; William E. Bennett, et al., 345/180; 178/18, 19; 382/13, 58 [IMAGE AVAILABLE]
41. 5,049,862, Sep. 17, 1991, Keyless flat panel portable computer--computer aided notebook; James Dao, et al., 345/179; 178/18; D14/106 [IMAGE AVAILABLE]
42. 5,027,414, Jun. 25, 1991, Method and apparatus for capturing information in drawing or writing; Colin S. Hilton, 382/3, 13 [IMAGE AVAILABLE]
22 JUL 94 16:36:02 U.S. Patent & Trademark Office P0021
43. 4,980,840, Dec. 25, 1990, Computerized editing and composing system; Bujiu Yin, et al., 395/150; 345/112; 395/151 [IMAGE AVAILABLE]
44. 4,972,496, Nov. 20, 1990, Handwritten keyboardless entry computer system; Ralph Sklarew, 382/13; 178/18; 345/901; 382/57, 59; D14/100 [IMAGE AVAILABLE]
45. 4,947,302, Aug. 7, 1990, Improvements to control systems for variable parameter lighting fixtures; Michael Callahan, 362/233; 315/312; 362/268, 277, 319 [IMAGE AVAILABLE]
46. 4,945,476, Jul. 31, 1990, Interactive system and method for creating and editing a knowledge base for use as a computerized aid to the cognitive process of diagnosis; Neil Bodick, et al., 364/413.02, 223, 224.5, 248.1, 260.4, 260.6, 274, 274.2, 274.3, 275.1, 275.2, 275.7, 282.1, 286, 286.1, 413.13; 395/12, 75, 76, 924 [IMAGE AVAILABLE]
47. 4,937,745, Jun. 26, 1990, Method and apparatus for selecting, storing and displaying chinese script characters; Amiram Carmon, 364/419.09, 920.4, 927.2, 927.6, 927.63, 928, 943, 943.43, 974, 974.4, DIG.2; 400/110 [IMAGE AVAILABLE]
48. 4,918,723, Apr. 17, 1990, Keyboard to facsimile machine transmission system; Jerry R. Iggulden, et al., 379/100; 358/402, 438, 452; 379/91, 96 [IMAGE AVAILABLE]
49. 4,899,137, Feb. 6, 1990, Arrangement for the input and processing of characters and/or graphic patterns; Herbert Behrens, et al., 345/168; 178/18; 341/5; 345/173 [IMAGE AVAILABLE]
50. 4,894,760, Jan. 16, 1990, Additive color-mixing light fixture employing a single moveable multi-filter array; Michael Callahan, 362/293; 359/889, 891; 362/277, 319 [IMAGE AVAILABLE]

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L16 10 S L15 AND L13

=> s slate at-hand
2057 SLATE
585788 HAND

L17 0 SLATE AT-HAND
(SLATE(1W)HAND)

=> s slate

L18 2057 SLATE

22 JUL 94 16:27:56

U.S. Patent & Trademark Office

P0011

=> s l7 and l18

L19 102 L7 AND L18

=> s l1 and l19

L20 11 L1 AND L19

=> d l20 1-11

1. 5,248,856, Sep. 28, 1993, Code-based, electromagnetic-field-responsive graphic data-acquisition system; Samuel W. Mallicoat, 178/18; 400/103 [IMAGE AVAILABLE]

2. 5,241,303, Aug. 31, 1993, Portable computer with physical reconfiguration of display connection for **stylus** and keyboard entry; David S. Register, et al., 345/168; 178/19; 345/179; 361/681 [IMAGE AVAILABLE]

3. 5,233,331, Aug. 3, 1993, Inking buffer for flat-panel display controllers; Liam D. Comerford, et al., 345/3; 178/18; 345/119, 200 [IMAGE AVAILABLE]

4. 5,226,091, Jul. 6, 1993, Method and apparatus for capturing information in drawing or writing; David N. L. Howell, et al., 382/3, 13, 56 [IMAGE AVAILABLE]

5. 5,194,852, Mar. 16, 1993, Electro-optic **slate** for direct entry and display and/or storage of hand-entered textual and graphic information; Edward S. More, et al., 345/182; 178/19; 341/5, 33; 345/173, 902 [IMAGE AVAILABLE]

6. 5,164,542, Nov. 17, 1992, Composite housing for a computer system; William Hart, 174/35MS; 29/592.1; 174/35R; 361/683, 724; 425/542, 543; 427/300; 428/622, 623, 624 [IMAGE AVAILABLE]

7. 5,107,541, Apr. 21, 1992, Method and apparatus for capturing information in drawing or writing; Colin S. Hilton, 382/3; 178/18; 382/13, 59, 65 [IMAGE AVAILABLE]

8. 5,067,573, Nov. 26, 1991, Hand-writing input apparatus; Hiroshi Uchida, 178/18; 382/69; D14/100 [IMAGE AVAILABLE]

9. 4,839,634, Jun. 13, 1989, Electro-optic **slate** for input/output of hand-entered textual and graphic information; Edward S. More, et al., 345/173; 178/18; 341/5, 33; 345/104 [IMAGE AVAILABLE]

10. 4,006,903, Feb. 8, 1977, Electrical tick-tack-toe game; Benjamin J. Barish, 273/237, 240, 271 [IMAGE AVAILABLE]

11. 3,894,183, Jul. 8, 1975, **Stylus** actuated electrical devices; Benjamin J. Barish, 178/18; 200/86R [IMAGE AVAILABLE]

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=> s l7(p)l9
 WARNING - PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
 FIELD CODE - 'AND' OPERATOR ASSUMED 'L7(P)L9'
 L12 1417 L7(P)L9

=> s l9 and l7 and l1
 L13 185 L9 AND L7 AND L1

=> s handwirting# or handwritten or script#
 0 HANDWIRTING#
 1012 HANDWRITTEN
 1501 SCRIPT#
 L14 2441 HANDWIRTING# OR HANDWRITTEN OR SCRIPT#

=> s handwriting# or handwritten or script#
 817 HANDWRITING#
 1012 HANDWRITTEN
 1501 SCRIPT#
 L15 2963 HANDWRITING# OR HANDWRITTEN OR SCRIPT#

=> s l15 and l13
 L16 10 L15 AND L13

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1. 5,233,331, Aug. 3, 1993, Inking buffer for flat-panel display
 controllers; Liam D. Comerford, et al., 345/3; 178/18; 345/119, 200 [IMAGE
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8. 4,495,646, Jan. 22, 1985, On-line character recognition using closed-loop
 22 JUL 94 16:21:44 U.S. Patent & Trademark Office P0004
 detector; Nader Gharachorloo, 382/13, 59 [IMAGE AVAILABLE]

9. 3,859,515, Jan. 7, 1975, METHOD AND APPARATUS FOR SIGNAL SPECTRUM
 ANALYSIS BY HADAMARD TRANSFORM; Arthur J. Radcliffe, Jr., 364/727; 324/76.12,
 76.21; 340/825.34; 382/3, 43 [IMAGE AVAILABLE]

10. 3,766,520, Oct. 16, 1973, CHARACTER READER WITH HANDPRINT CAPABILITY;
 Joseph V. Patterson, 382/21, 25, 35 [IMAGE AVAILABLE]

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546, 547, 555; 544/6, 14, 32, 71, 89, 231, 246; 548/147, 148, 149, 150, 216,
 217, 224, 301.1, 301.7, 302.4 [IMAGE AVAILABLE]

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22 JUL 94 17:20:01 SET PAGELENGTH 62 U.S. Patent & Trademark Office P0063
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L1 23029 S DIGITIZ### OR DIGITIS###
 L2 7727 S STYLUS
 L3 19908 S PEN#
 L4 328534 S CALCULAT? OR ARITHMETIC### OR MATHEMATIC### OR EQUATION#
 L5 740 S FORMULAR?
 L6 328951 S L4 OR L5
 L7 26357 S L2 OR L3
 L8 3626 S L1(P)L4
 L9 75688 S L6 NOT CALCULAT?
 L10 2693 S L1(P)L9
 L11 2693 S L1(2P)L9
 L12 1417 S L7(P)L9
 L13 185 S L9 AND L7 AND L1
 L14 2441 S HANDWRITING# OR HANDWRITTEN OR SCRIPT#
 L15 2963 S HANDWRITING# OR HANDWRITTEN OR SCRIPT#
 L16 10 S L15 AND L13
 L17 0 S SLATE AT-HAND
 L18 2057 S SLATE
 L19 102 S L7 AND L18
 L20 11 S L1 AND L19
 L21 26 S PENMAN
 L22 129540 S NUMERIC### OR L9
 L23 647 S L7 AND L1 AND L22
 L24 77 S L15 AND L23
 SET HIGHLIGHT OFF
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 L27 26357 S L7
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 L29 77 S L27 AND L28
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 L34 77 S L27 AND L33
 L35 181 S L32 AND L22 AND L25
 L36 77 S L35 AND L27
 L37 25924 S ERAS###
 L38 1 S 4578811/PN
 L39 1 S 4141073/PN
 L40 2 S L38 OR L39
 L41 0 S L40 AND L37
 L42 25 S L36 AND L37
 L43 1 S 4151496/PN
 L44 0 S L43 AND L37
 L45 14 S L42 AND L2

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